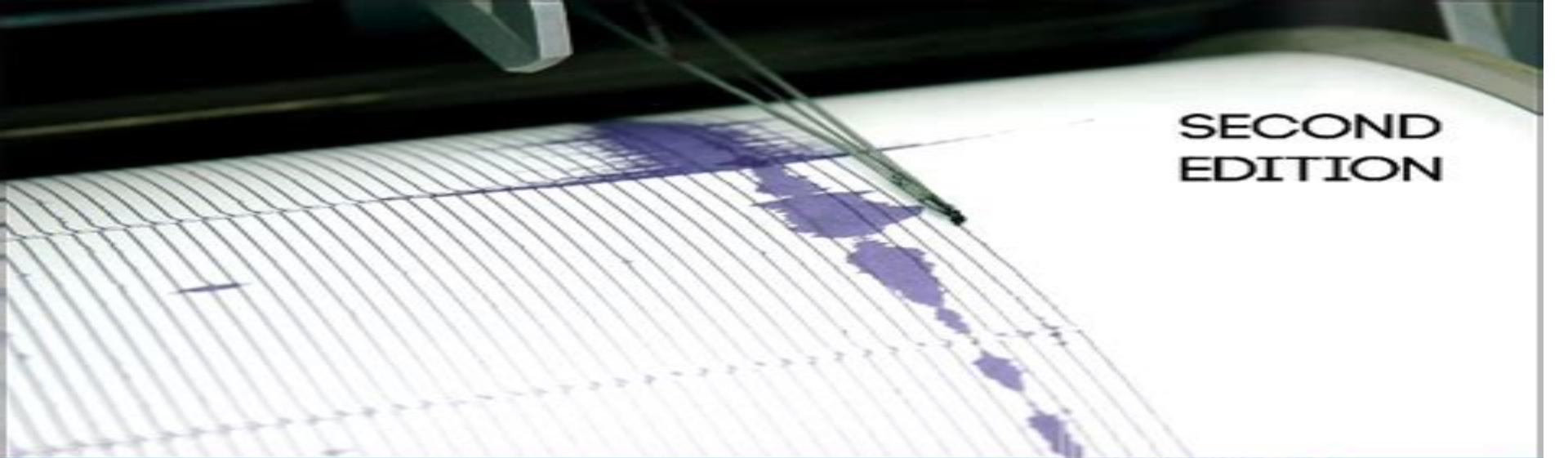




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# CRITICAL EXCITATION METHODS IN EARTHQUAKE ENGINEERING

IZURU TAKEWAKI



# Critical Excitation Methods In Earthquake Engineering

**Izuru Takewaki**



## **Critical Excitation Methods In Earthquake Engineering:**

Critical Excitation Methods in Earthquake Engineering Izuru Takewaki, 2013-06-03 After the March 11 2011 earthquake in Japan there is overwhelming interest in worst case analysis including the critical excitation method Nowadays seismic design of structures performed by any seismic code is based on resisting previous natural earthquakes Critical Excitation Methods in Earthquake Engineering Second Edition develops a new framework for modeling design earthquake loads for inelastic structures The Second Edition includes three new chapters covering the critical excitation problem for multi component input ground motions and that for elastic plastic structures in a more direct way are incorporated and discussed in more depth Finally the problem of earthquake resilience of super high rise buildings is discussed from broader viewpoints Solves problems of earthquake resilience of super high rise buildings Three new chapters on critical excitation problem for multi component input ground motions Includes numerical examples of one and two story models **Critical Excitation**

**Methods in Earthquake Engineering** Izuru Takewaki, 2006-12-18 Since the occurrence of earthquakes and their properties are very uncertain even with the present knowledge it is too difficult to define reasonable design ground motions especially for important buildings In the seismic resistant design of building structures the concept of performance based design has become a new paradigm guaranteeing the maximum satisfaction of building owners The quality and reliability of the performance based design certainly depend on the scientific rationality of design ground motions In order to overcome this problem a new paradigm has to be posed To the author's knowledge the concept of critical excitation and the structural design based upon this concept can become one of such new paradigms This book introduces a new probabilistic and energy based critical excitation approach to overcome several problems in the scientific and rational modelling of ground motions The author hopes that this book will help the development of new seismic resistant design methods of buildings for such unpredicted or unpredictable ground motions First comprehensive book for critical excitation methods Including updated cutting edge research Applicable to other worst case analysis problems Including comprehensive review of critical excitation methods Including verification by comprehensive recorded ground motions *Design Optimization of Active and Passive*

*Structural Control Systems* Lagaros, Nikos D., Plevris, Vagelis, Mitropoulou, Chara Ch, 2012-08-31 A typical engineering task during the development of any system is among others to improve its performance in terms of cost and response Improvements can be achieved either by simply using design rules based on the experience or in an automated way by using optimization methods that lead to optimum designs Design Optimization of Active and Passive Structural Control Systems includes Earthquake Engineering and Tuned Mass Damper research topics into a volume taking advantage of the connecting link between them which is optimization This is a publication addressing the design optimization of active and passive control systems This title is perfect for engineers professionals professors and students alike providing cutting edge research and applications **Building Control with Passive Dampers** Izuru Takewaki, 2011-09-23 The recent introduction of active and

passive structural control methods has given structural designers powerful tools for performance based design However structural engineers often lack the tools for the optimal selection and placement of such systems In Building Control with Passive Dampers Takewaki brings together most the reliable state of the art methods in practice around the world arming readers with a real sense of how to address optimal selection and placement of passive control systems The first book on optimal design sizing and location selection of passive dampers Combines theory and practical applications Describes step by step how to obtain optimal damper size and placement Covers the state of the art in optimal design of passive control Integrates the most reliable techniques in the top literature and used in practice worldwide Written by a recognized expert in the area MATLAB code examples available from the book s Companion Website This book is essential for post graduate students researchers and design consultants involved in building control Professional engineers and advanced undergraduates interested in seismic design as well as mechanical engineers looking for vibration damping techniques will also find this book a helpful reference Code examples available at [www.wiley.com/go/takewaki](http://www.wiley.com/go/takewaki)

**Modern Earthquake Engineering** Junbo Jia, 2016-10-01 This book addresses applications of earthquake engineering for both offshore and land based structures It is self contained as a reference work and covers a wide range of topics including topics related to engineering seismology geotechnical earthquake engineering structural engineering as well as special contents dedicated to design philosophy determination of ground motions shock waves tsunamis earthquake damage seismic response of offshore and arctic structures spatial varied ground motions simplified and advanced seismic analysis methods sudden subsidence of offshore platforms tank liquid impacts during earthquakes seismic resistance of non structural elements and various types of mitigation measures etc The target readership includes professionals in offshore and civil engineering officials and regulators as well as researchers and students in this field

Critical Earthquake Response of Elastic-Plastic Structures Under Near-Fault or Long-Duration Ground Motions: Closed-Form Approach via Impulse Input Izuru Takewaki, 2015-12-22 The specialty section Earthquake Engineering is one branch of Frontiers in Built Environment and welcomes critical and in depth submissions on earthquake ground motions and their effects on buildings and infrastructures Manuscripts should yield new insights and ultimately contribute to a safer and more reliable design of building structures and infrastructures The scope includes the characterization of earthquake ground motions e g near fault far fault short period long period their underlying properties their intrinsic relationship with structural responses and the true behaviors of building structures and infrastructures under risky and uncertain ground motions More specific topics include recorded ground motions generated ground motions response spectra stochastic modeling of ground motion critical excitation geotechnical aspects soil mechanics soil liquefaction soil structure interactions pile foundations earthquake input energy structural control passive control active control base isolation steel structures reinforced concrete structures wood structures building retrofit structural optimization uncertainty analysis robustness analysis and redundancy analysis This eBook includes four original

research papers in addition to the Specialty Grand Challenge article on the critical earthquake response of elastic plastic structures under near fault or long duration ground motions which were published in the specialty section Earthquake Engineering In the early stage of dynamic nonlinear response analysis of structures around 1960s a simple hysteretic structural model and a simple sinusoidal earthquake ground motion input were dealt with together with random inputs The steady state response was tackled by an equivalent linearization method developed by Caughey Iwan and others In fact the resonance plays a key role in the earthquake resistant design and it has a strong effect even in case of near fault ground motions In order to draw the steady state response curve and investigate the resonant property two kinds of repetition have to be introduced One is a cycle for one forced input frequency of the initial guess of the steady state response amplitude the construction of the equivalent linear model the analysis of the steady state response amplitude using the equivalent linear model and the update of the equivalent linear model based on the computed steady state response amplitude The other is the sweeping over a range of forced input frequencies This process is quite tedious Four original research papers included in this eBook propose a new approach to overcome this difficulty Kojima and Takewaki demonstrated that the elastic plastic response as continuation of free vibrations under impulse input can be derived in a closed form by a sophisticated energy approach without solving directly the equations of motion as differential equations While as pointed out above the approach based on the equivalent linearization method requires the repetition of application of the linearized equations the method by Kojima and Takewaki does not need any repetition The double impulse triple impulse and multiple impulses enable us to describe directly the critical timing of impulses resonant frequency which is not easy for the sinusoidal and other inputs without a repetitive procedure It is important to note that while most of the previous methods employ the equivalent linearization of the structural model with the input unchanged the method treated in this eBook transforms the input into a series of impulses with the structural model unchanged This characteristic guarantees high accuracy and reliability even in the large plastic deformation range The approach presented in this eBook is an epoch making accomplishment to open the door for simpler and deeper understanding of structural reliability of built environments in the elastic plastic range

Structural Seismic Design Optimization and Earthquake Engineering: Formulations and Applications Plevris, Vagelis, 2012-05-31 Throughout the past few years there has been extensive research done on structural design in terms of optimization methods or problem formulation But much of this attention has been on the linear elastic structural behavior under static loading condition Such a focus has left researchers scratching their heads as it has led to vulnerable structural configurations What researchers have left out of the equation is the element of seismic loading It is essential for researchers to take this into account in order to develop earthquake resistant real world structures Structural Seismic Design Optimization and Earthquake Engineering Formulations and Applications focuses on the research around earthquake engineering in particular the field of implementation of optimization algorithms in earthquake engineering problems Topics

discussed within this book include but are not limited to simulation issues for the accurate prediction of the seismic response of structures design optimization procedures soft computing applications and other important advancements in seismic analysis and design where optimization algorithms can be implemented Readers will discover that this book provides relevant theoretical frameworks in order to enhance their learning on earthquake engineering as it deals with the latest research findings and their practical implementations as well as new formulations and solutions

**Improving the Earthquake Resilience of Buildings** Izuru Takewaki, Abbas Moustafa, Kohei Fujita, 2012-07-26 Engineers are always interested in the worst case scenario One of the most important and challenging missions of structural engineers may be to narrow the range of unexpected incidents in building structural design Redundancy robustness and resilience play an important role in such circumstances Improving the Earthquake Resilience of Buildings The worst case approach discusses the importance of worst scenario approach for improved earthquake resilience of buildings and nuclear reactor facilities Improving the Earthquake Resilience of Buildings The worst case approach consists of two parts The first part deals with the characterization and modeling of worst or critical ground motions on inelastic structures and the related worst case scenario in the structural design of ordinary simple building structures The second part of the book focuses on investigating the worst case scenario for passively controlled and base isolated buildings This allows for detailed consideration of a range of topics including A consideration of damage of building structures in the critical excitation method for improved building earthquake resilience A consideration of uncertainties of structural parameters in structural control and base isolation for improved building earthquake resilience and New insights in structural design of super high rise buildings under long period ground motions Improving the Earthquake Resilience of Buildings The worst case approach is a valuable resource for researchers and engineers interested in learning and applying the worst case scenario approach in the seismic resistant design for more resilient structures

**Structural Design Optimization Considering Uncertainties** Yannis Tsompanakis, Nikos D. Lagaros, Manolis Papadrakakis, 2008-02-07 Uncertainties play a dominant role in the design and optimization of structures and infrastructures In optimum design of structural systems due to variations of the material manufacturing variations variations of the external loads and modelling uncertainty the parameters of a structure a structural system and its environment are not given fi

Critical Earthquake Response of Elastic-Plastic Structures and Rigid Blocks under Near-Fault Ground Motions: Closed-Form Approach via Double Impulse Izuru Takewaki, 2016-05-26 This eBook is the second in a series of books on the critical earthquake response of elastic plastic structures or rigid blocks under near fault ground motions and includes four original research papers which were published in the specialty section Earthquake Engineering in Frontiers in Built Environment Several extensions of the first book<sup>1</sup> are included here The first article is on the soil structure interaction problem The reduction of an original soil structure interaction model into a single degree of freedom SDOF model enables the application of the original theory for an SDOF model to such complicated soil structure interaction model The

second article is concerned with the extension of the original theory for an SDOF model to a 2DOF model. Since the simple application of the original theory for an SDOF model to a multi degree of freedom model is difficult due to out of phase phenomenon of multiple masses a convex model theory is introduced and an upper bound of elastic plastic response is derived. The third article is related to the stability problem of structures collapse problems of structures in which the P delta effect is included. It is shown that the original theory for an SDOF model with elastic perfectly plastic restoring force characteristic can be applied to a model with negative second slope. The fourth article is an application of the energy balance approach to an overturning limit problem of rigid blocks. A closed form expression of the overturning limit of rigid blocks is derived for the first time after the Housner's pioneering work in 1963. The approach presented in this book together with the first book is an epoch making accomplishment to open the door for simpler and deeper understanding of structural reliability of built environments in the elastic plastic and nonlinear range.

## The Enigmatic Realm of **Critical Excitation Methods In Earthquake Engineering**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Critical Excitation Methods In Earthquake Engineering** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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